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NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER

imagery analysis report

Construction Status of Launch Control Facilities at Soviet ICBM Complexes (S)

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CONSTRUCTION STATUS OF LAUNCH CONTROL FACILITIES AT SOVIET ICBM COMPLEXES (S)

- 1. (S/D) Ninety-nine launch control facilities (LCFs), referred to as type IIIX silos, had been constructed at deployed ICBM complexes in the Soviet Union by January 1981. These LCFs have been deployed in three different configurations: 15 are for the SS-17 missile, 48 are for the SS-18 missile, and 36 are for the SS-19 missile. An additional ten LCF sites were abandoned in early stages of construction and backfilled. This report categorizes these configurations, provides a table showing location and construction chronology, and updates information presented in referenced document 1.
- 2. (S/D) From 1970 until mid-1977, LCFs were deployed in two configurations which were designated as type I and type II LCFs. Neither of these types was deployed after mid-1977. The third configuration, designated as type III, is a significantly modified LCF. The major design variants are a change in the relative position of the launch control support building to the launch control silo and an increase of approximately 2 meters in the usable depth of the silo.

Type I Launch Control Facilities

3. (S/D) At type I LCFs, the launch control support building is positioned at a 45-degree angle to the long axis of the launch control silo apron (Figure 1). There are 35 type I LCFs deployed at both SS-17 and SS-19 launch groups.

Type II Launch Control Facilities

4. (S/D) At type II LCFs, the launch control support building is positioned perpendicular to and offset from the long axis of the launch control silo apron (Figure 2). There are 19 type II LCFs which are deployed only at SS-18 launch groups.

Type III Launch Control Facilities

5. (S/D) At type III LCFs, the launch control support building is positioned perpendicular to and in line with the long axis of the launch control silo apron (Figure 3). Forty-five type III LCFs have been identified at SS-17, SS-18, and SS-19 launch groups. This includes six type I LCFs (three at Derazhnya and three at Pervomaysk) that were modified to type III.² This modification program is continuing; however, the full extent is not known. Current activity also indicates that at least some type II LCFs will be modified to type III.

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Table 1. Construction Status of LCFs at Soviet ICBM Complexes

mplex	LCF	First Seen Ucon	Original Completion Date	Phase II Hardened Antenna	LCF Type	Remarks	Complex	LCF	First Seen Ucon	Original Completion Date	Phase II Hardened Antenna	LCF Type	Remarks	Complex	LCF	First Seen Ucon	Original Completion Date	Phase II Hardened Antenna	LCF Type	Remarks
	-17 Associa		D. 11.0		-794		SS-17 Associated							S	S-17 Assoc	iated				
troma	II	Apr 75	Dec 77	Yes	I		Imeni Gastell	o AA	Nov 70	Nov 76	Yes	II			EE	Jul 73	Jul 76	Yes	1	
cronna	jj	Mar 77	Backfilled	No	_	Last construction activity seen Feb 78		BB	Jan 76	Oct 77	Yes	11			FF	Feb 75	Jul 77	Yes	I	
	KK	Dec 75	Sep 78	Yes	I			CC	Apr 77	Jan 79	Yes	111			G	Oct 70	Mar 73	No	I	
	LL	Apr 76	Jan 79	Yes	i			DD	Mar 77	Sep 78	Yes	111			H	Feb 71	Mar 74	No	1	
	MM	Jun 77	Backfilled	No	_	Construction stopped by Nov 78		EE	Jul 76	Aug 79	Yes	111			I	Jan 71	Feb 74	No	I	
	NN	Apr 78	Backfilled	No	_	Last construction activity seen in Sep 78		FF	Nov 77	Oct 79	Yes	111		Kozelsk	GG	Jan 74	Sep 76	Yes	1	
	00	Sep 77	Backfilled	No	_	Last construction activity seen in Sep 78		GG	Sep 77	Sep 80	Yes	111		ROLLISK	нн	Nov 75	Feb 78	Yes	i	
	PP	Jul 76	Jul 80	Yes	III			HH	Nov 77	Nov 80	Yes	Ш			11	Jun 74	Jan 76	Yes	i	
	QQ	Dec 77	Backfilled	No		Construction stopped by Nov 78	Kartaly	AA	May 71	Nov 75	Yes	11			ii.	Feb 76	Jun 78	Yes	i	
rovo	П	May 74	Sep 75	Yes	1		Kanan	BB	Apr 75	Oct 76	Yes	11			KK	Aug 77	Backfilled	No		Construction stopped by Nov 77
rovo	ij	Feb 75	Aug 76	Yes	1			CC	Jan 76	Oct 77	Yes	11			L.L.	Jan 76	Dec 77	Yes	1	
	KK	Jul 75	Mar 77	Yes	ī			DD	Aug 76	Oct 78	Yes	iii			MM	Jun 77	Backfilled	No	_	Construction stopped by Jan 78
	LL	Apr 74	Jun 75	Yes	Ť			EE	Oct 76	Sep 79	Yes	III			NN	Sep 76	Jan 79	Yes	1	
	MM	Jul 75	Oct 76	Yes	i			FF	May 77	Dec 80	Yes	III			00	Jun 77	Backfilled	No	_	Construction stopped by Jan 78
	NN	Oct 77	Jul 80	Yes	iII			GG	Jun 77	Aug 80	Yes	III			PP	Jun 77	Backfilled	No	_	Construction stopped by Nov 77
	00	Jun 77	Apr 79	Yes	III					-		***			QQ	Aug 77	Backfilled	No	_	Construction stopped by Nov 77
	PP	Jul 76	Oct 77	Yes	Ī		Uzhur	AA	Apr 71	Oct 75	Yes	11		Pervomaysk	AA	Apr 73	Jun 75	Yes	111	Changed from a type I
	QQ	Jan 76	Oct 77	Yes	Í			BB CC	Jun 75 Oct 75	Sep 76 Jul 77	Yes Yes	11		reivoillaysk	BB	Apr 73	Jun 75	Yes	iii	Changed from a type I
	ŘŘ	Jun 77	Sep 78	Yes	III			DD	Mar 76	Nov 77	Yes	11			CC	Aug 73	Jun 75	Yes	i''	changed from a type I
	TT	May 77	Nov 79	Yes	III			EE	Mar 76	Aug 78	Yes	III			DD	Jun 73	Aug 75	Yes	in	Changed from a type I
								FF	Mar 76	Sep 78	Yes	III			EE	May 75	Oct 76	Yes	ï	Changes from a type .
ee	-18 Associ							GG	Nov 76	Jul 79	Yes	III			FF	Aug 73	Jan 76	Yes	i	
- 30	-10 ASSOCI							HH	May 77	Oct 79	Yes	III			G	Feb 71	Mar 74	No	Ī	
/sk	AA	Mar 75	Nov 76	Yes	П			11	Jul 77	Jun 80	Yes	III			н	Nov 70	May 73	No	i	
	BB	Aug 75	Nov 79	Yes	H			ii	May 77	Nov 80	Yes	III			i	Nov 70	Jun 74	No	Í	
	CC	Jun 76	Oct 78	Yes	111									Track to the con-						
	DD	May 77	Oct 79	Yes	111		Zhangiz Tobe		Nov 70	Nov 76	Yes	11		Tatishchevo	AA BB	Aug 77 Jun 76	Mar 80 Aug 78	Yes Yes	1	
	EE	May 77	Oct 80	Yes	111			BB	Nov 75	Nov 77	Yes	11			CC	Sep 73	Aug /8 May 77	Yes	1	
nbarovsk	iv AA	Dec 70	Nov 74	Yes	11			CC	Feb 76	Aug 77	Yes	II			DD	Sep 74	May // Sep 77	Yes	1	
	ВВ	May 74	Jan 76	Yes	II			DD	Jan 77	Oct 78	Yes	III			EE	Sep /4 Aug 78	Jan 80	Yes	iII	
	CC	Apr 75	Nov 76	Yes	11			EE	May 77	Jul 79	Yes	III			FF	Jan 76	Dec 77	Yes	1	
	DD	Jan 75	Sep 77	Yes	H			FF	Dec 77	Nov 79	Yes	III			GG	Jul 76	Dec 77	Yes	î	
	EE	Jul 76	Sep 78	Yes	Ш			GG	Nov 77	Nov 80	Yes	111			HH	Aug 77	Ucon	Yes	in	Reconstruction started by
	FF	Mar 76	Nov 77	Yes	11			нн	Jan 78	Aug 80	Yes	111			H	Apr 77	Nov 80	Yes	111	Reconstruction started by Sep 78
	GG	May 77	Nov 78	Yes	Ш		SS	-19 Associ	iated						ii	Apr 77	Ucon	Yes	111	Reconstruction started by Sep 78
	HH	Oct 77	Jul 79	Yes	Ш		Derazhnya	AA	Apr 73	Nov 74	Yes	111	Changed from a type I		KK	Sep 77	Sep 80	Yes	III	Reconstruction started by Aug 78
	11	May 77	Nov 79	Yes	H		Deraziniya	BB	Apr 73	Oct 75	Yes	1	changes noth a type i	1	LL	Jan 77	Aug 78	Yes	i.	the state of the s
	JJ	Oct 77	Oct 80	Yes	Ш			CC	Jun 73	Feb 75	Yes	in	Changed from a type I			Jun 17	1100 10			
								DD	Jul 73	Aug 75	Yes	III	Changed from a type I	i						

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REFERENCES	
IMAGERY	
(S/D) All applicable satellite imagery acquired through	25X1
DOCUMENTS	
1. NPIC. PIR-012/79, Construction Status of Launch Control Facilities at Societ ICBM Complexes (ISB), Mar 79 (TOP SECRET)	25X1 25X1
 NPIC. Z-20140/80, IAR-0195/80, Modification of Launch Control Facilities at Personnaysk and Dera- thnya SSM Complexes, USSR (S), Oct 80 (SECRET) 	25X1
*Extracted information is classified SECRET/	25X1
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(S) Comments and queries regarding this report are welcome. They may be directed to Soviet Strategic Forces Division, Imagery Exploitation Group, NPIC.	25X1 25X

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